

Model 80S Submersible Pressure Transducer



- Compact size perfect for most installations
- Outputs: 4-20mA and mV/V
- Pressure ranges 0-5, 0-10 and 0-15 PSIG
- Accuracies of 1.0%, 0.5%, 0.2% and 0.1%
- Long-term stability
- 316 stainless steel construction
- Designed for hazardous area installation (intrinsic safety barrier required – approvals pending)



Performance @ 25°C (77°F)

Accuracy: $\pm 1.0\%$ BFSL (optional 0.5%, 0.2% and 0.1%)
Stability: $< \pm 0.2\%$ FS/year, typical
Over pressure protection: 2X Rated Pressure
Burst Pressure: 2.5X minimum
Pressure Cycles: >50 Million

Environmental Data

Operating temp: -20 to +80°C (-40 to +176°F)
Storage temp: -50 to +125°C (-60 to +250°F)
Compensated range: 0 to 55°C (+32 to +130°F)

Electrical Data

Excitation:

9-29 Vdc for 4-20mA
10 Vdc for mV/V output (5 mV/V for 5 PSI units)
(10mV/V for >5 PSI units)

Electrical rating: IEC Ex ia IIC T5 – Nema 6P
Loop resistance @ 24 Vdc: 500 Ohm
Zero offset: $< \pm 1.0\%$ of FS
Span tolerance: $< \pm 1.0\%$ of FS

Physical data

Sensor wetted material: 316SS
Body material: 316SS
Cable pull strength: 200 lb.
Pressure connection: Bullet-nose

Electrical Connection: Molded, vented submersible
cable
(Polyethylene outer jacket)

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Ordering information:

Part number	Description	Output	Cable
80S054250-1	Stainless steel construction, bullet nose, 0-5 PSIG, 1% BFSL	4-20mA	50 Ft
80S054250-5	Stainless steel construction, bullet nose, 0-5 PSIG, 0.5% BFSL	4-20mA	50 Ft
80S054250-2	Stainless steel construction, bullet nose, 0-5 PSIG, 0.2% BFSL	4-20mA	50 Ft
80S054250-01	Stainless steel construction, bullet nose, 0-5 PSIG, 0.1% BFSL	4-20mA	50 Ft
80S104250-1	Stainless steel construction, bullet nose, 0-10 PSIG, 1% BFSL	4-20mA	50 Ft
80S104250-5	Stainless steel construction, bullet nose, 0-10 PSIG, 0.5% BFSL	4-20mA	50 Ft
80S104250-2	Stainless steel construction, bullet nose, 0-10 PSIG, 0.2% BFSL	4-20mA	50 Ft
80S104250-01	Stainless steel construction, bullet nose, 0-10 PSIG, 0.1% BFSL	4-20mA	50 Ft
80S154250-1	Stainless steel construction, bullet nose, 0-15 PSIG, 1% BFSL	4-20mA	50 Ft
80S154250-5	Stainless steel construction, bullet nose, 0-15 PSIG, 0.5% BFSL	4-20mA	50 Ft
80S154250-2	Stainless steel construction, bullet nose, 0-15 PSIG, 0.2% BFSL	4-20mA	50 Ft
80S154250-01	Stainless steel construction, bullet nose, 0-15 PSIG, 0.1% BFSL	4-20mA	50 Ft
80S154280-1	Stainless steel construction, bullet nose, 0-15 PSIG, 1% BFSL	4-20mA	80 Ft.
80S154280-5	Stainless steel construction, bullet nose, 0-15 PSIG, 0.5% BFSL	4-20mA	80 Ft.
80S154280-2	Stainless steel construction, bullet nose, 0-15 PSIG, 0.2% BFSL	4-20mA	80 Ft.
80S154280-01	Stainless steel construction, bullet nose, 0-15 PSIG, 0.1% BFSL	4-20mA	80 Ft.
80S05MV50-1	Stainless steel construction, bullet nose, 0-5 PSIG, 1% BFSL	5mV/V	50 Ft
80S05MV50-5	Stainless steel construction, bullet nose, 0-5 PSIG, 0.5% BFSL	5mV/V	50 Ft
80S05MV50-2	Stainless steel construction, bullet nose, 0-5 PSIG, 0.2% BFSL	5mV/V	50 Ft
80S05MV50-01	Stainless steel construction, bullet nose, 0-5 PSIG, 0.1% BFSL	5mV/V	50 Ft
80S10MV50-1	Stainless steel construction, bullet nose, 0-10 PSIG, 1% BFSL	10mV/V	50 Ft
80S10MV50-5	Stainless steel construction, bullet nose, 0-10 PSIG, 0.5% BFSL	10mV/V	50 Ft
80S10MV50-2	Stainless steel construction, bullet nose, 0-10 PSIG, 0.2% BFSL	10mV/V	50 Ft
80S10MV50-01	Stainless steel construction, bullet nose, 0-10 PSIG, 0.1% BFSL	10mV/V	50 Ft
80S15MV50-1	Stainless steel construction, bullet nose, 0-15 PSIG, 1% BFSL	10mV/V	50 Ft
80S15MV50-5	Stainless steel construction, bullet nose, 0-15 PSIG, 0.5% BFSL	10mV/V	50 Ft
80S15MV50-2	Stainless steel construction, bullet nose, 0-15 PSIG, 0.2% BFSL	10mV/V	50 Ft
80S15MV50-01	Stainless steel construction, bullet nose, 0-15 PSIG, 0.1% BFSL	10mV/V	50 Ft

Dimensions:

